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Application No. 10/620,458
Amendment dated March 28, 2007
Reply to Office Action of December 28, 2006

Docket No.: 0941-0791P

REMARKS

Claims 1-3 remain present in this application.

Claims 1-3 have been amended. Reconsideration of the application, as amended, is respectfully requested.

Objection to the Claims

Claim 1 stands objected to for an informality. In view of the foregoing amendments, it is respectfully submitted that this objection has been addressed. Reconsideration and withdrawal of any objection to the claims are respectfully requested.

Rejection under 35 USC 112

Claims 1-3 stand rejected under 35 USC 112, second paragraph. This rejection is respectfully traversed.

Regarding to claim 1, the sensor emits light to the calibrating surface to generate a bright line. When the calibrating surface is translated along the Z coordinate, the bright lines at various predetermined positions along the Z coordinate are detected by the sensor to generate the two-dimensional digital image. Accordingly, the two-dimensional digital image is the combination of all bright lines at the various predetermined positions along the Z coordinate. The first table describes the Z-coordinate of each pixel of the two-dimensional digital image. Similarly, the second table describes the X coordinate of the two-dimensional digital image. In fact, the first table is the relationship between the Z-coordinate and the two-dimensional digital image. The second table is the relationship between the X-coordinate and the two-dimensional digital image.

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Regarding claim 2, similarly to claim 1, the third table describes the Y-coordinate of each pixel of the two-dimensional digital image. The third table is the relationship between the Y-coordinate and the two-dimensional digital image.

Regarding claim 3, similarly to claim 1, the first table describes the relationship between the coordinate of the translating axis versus the corresponding bright line images made by the laser sensor at each calibrating position, and the second table describes the relationship between the coordinate of the axis perpendicular to the translating axis versus the corresponding bright line images made by the laser sensor at each calibrating position.

In view of the foregoing amendments and remarks, it is respectfully submitted that all claims particularly point out and distinctly claim the subject matter of the instant invention. Reconsideration and withdrawal of the 35 USC 112, second paragraph rejection are respectfully requested.

Allowable Subject Matter

Applicants gratefully acknowledge that the Examiner considers claims 1-3 to be allowable if rewritten to address the foregoing objections and rejection. In view of the foregoing amendments, it is respectfully submitted that these claims should now fully be in condition for allowance.

Conclusion

Favorable reconsideration and an early Notice of Allowance are earnestly solicited.

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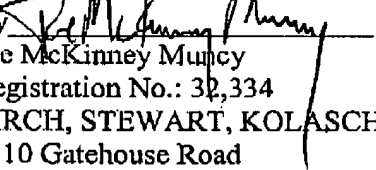
Because the additional prior art cited by the Examiner has been included merely to show the state of the prior art and has not been utilized to reject the claims, no further comments concerning these documents are considered necessary at this time.

In the event that any outstanding matters remain in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: March 28, 2007

Respectfully submitted

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